

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/786,635C
Source: IFW16
Date Processed by STIC: 1/10/05

ENTERED



I FW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/786,635C

DATE: 01/10/2005
TIME: 16:38:15

Input Set : N:\Rasheed\PTO.AR.txt
Output Set: N:\CRF4\01102005\I786635C.raw

3 <110> APPLICANT: Bayer AG
 5 <120> TITLE OF INVENTION: ATP binding cassette genes and proteins for diagnosis and
 treatment of
 6 lipid disorders and inflammatory diseases
 8 <130> FILE REFERENCE: Lea 33298
 10 <140> CURRENT APPLICATION NUMBER: US/09/786,635C
 11 <141> CURRENT FILING DATE: 2001-05-22
 13 <150> PRIOR APPLICATION NUMBER: 101706
 14 <151> PRIOR FILING DATE: 1998-09-25
 16 <160> NUMBER OF SEQ ID NOS: 54
 18 <170> SOFTWARE: PatentIn version 3.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 6880
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
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 30 atgcctctg caggaacact tccttgggtt caggggatta tctgtaatgc caacaacccc 180
 32 tggcccggtt acccgactcc tggggaggct cccggagttg ttggaaactt taacaatcc 240
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 36 agcatgaagg acatgcgcaa agttctgaga acattacagc agatcaagaa atccagctca 360
 38 aacttgaagc ttcaagattt cctgggtggac aatgaaacct tctctgggtt cctgtatcac 420
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 42 aaggtatttt tgcaaggcta ccagttacat ttgacaagtc tggcaatgg atcaaaatca 540
 44 gaagagatga ttcaacttgg tgaccaagaa gtttctgagc tttgtggcct accaagggag 600
 46 aaactggctg cagcagagcg agtacttcgt tccaaatgg acatcctgaa gccaatcctg 660
 48 agaacactaa actctacatc tcccttcccg agcaaggagc tggccgaaagc cacaaaaaca 720
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P.6

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88	ccctcttca	tgacgtggc	ctggatttac	tcagtggtg	tgtatcatcaa	gggcatactg	1920
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142	tctgctatct	ccaaacctat	caggaagcat	gtgtctgaa	cccgctgtt	ggaagacata	3540
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277 50 55 60
280 Met Arg Lys Val Leu Arg Thr Leu Gln Gln Ile Lys Lys Ser Ser Ser
281 65 70 75 80
284 Asn Leu Lys Leu Gln Asp Phe Leu Val Asp Asn Glu Thr Phe Ser Gly
285 85 90 95
288 Phe Leu Tyr His Asn Leu Ser Leu Pro Lys Ser Thr Val Asp Lys Met
289 100 105 110
292 Leu Arg Ala Asp Val Ile Leu His Lys Val Phe Leu Gln Gly Tyr Gln
293 115 120 125
296 Leu His Leu Thr Ser Leu Cys Asn Gly Ser Lys Ser Glu Glu Met Ile
297 130 135 140
300 Gln Leu Gly Asp Gln Glu Val Ser Glu Leu Cys Gly Leu Pro Arg Glu
301 145 150 155 160
304 Lys Leu Ala Ala Ala Glu Arg Val Leu Arg Ser Asn Met Asp Ile Leu
305 165 170 175
308 Lys Pro Ile Leu Arg Thr Leu Asn Ser Thr Ser Pro Phe Pro Ser Lys
309 180 185 190
312 Glu Leu Ala Glu Ala Thr Lys Thr Leu Leu His Ser Leu Gly Thr Leu
313 195 200 205
316 Ala Gln Glu Leu Phe Ser Met Arg Ser Trp Ser Asp Met Arg Gln Glu
317 210 215 220
320 Val Met Phe Leu Thr Asn Val Asn Ser Ser Ser Ser Thr Gln Ile
321 225 230 235 240
324 Tyr Gln Ala Val Ser Arg Ile Val Cys Gly His Pro Glu Gly Gly
325 245 250 255
328 Leu Lys Ile Lys Ser Leu Asn Trp Tyr Glu Asp Asn Asn Tyr Lys Ala
329 260 265 270
332 Leu Phe Gly Gly Asn Gly Thr Glu Glu Asp Ala Glu Thr Phe Tyr Asp
333 275 280 285
336 Asn Ser Thr Thr Pro Tyr Cys Asn Asp Leu Met Lys Asn Leu Glu Ser
337 290 295 300
340 Ser Pro Leu Ser Arg Ile Ile Trp Lys Ala Leu Lys Pro Leu Leu Val
341 305 310 315 320
344 Gly Lys Ile Leu Tyr Thr Pro Asp Thr Pro Ala Thr Arg Gln Val Met
345 325 330 335
348 Ala Glu Val Asn Lys Thr Phe Gln Glu Leu Ala Val Phe His Asp Leu
349 340 345 350
352 Glu Gly Met Trp Glu Glu Leu Ser Pro Lys Ile Trp Thr Phe Met Glu
353 355 360 365
356 Asn Ser Gln Glu Met Asp Leu Val Arg Met Leu Leu Asp Ser Arg Asp
357 370 375 380
360 Asn Asp His Phe Trp Glu Gln Gln Leu Asp Gly Leu Asp Trp Thr Ala
361 385 390 395 400
364 Gln Asp Ile Val Ala Phe Leu Ala Lys His Pro Glu Asp Val Gln Ser
365 405 410 415
368 Ser Asn Gly Ser Val Tyr Thr Trp Arg Glu Ala Phe Asn Glu Thr Asn
369 420 425 430
372 Gln Ala Ile Arg Thr Ile Ser Arg Phe Met Glu Cys Val Asn Leu Asn

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373 435 440 445
 376 Lys Leu Glu Pro Ile Ala Thr Glu Val Trp Leu Ile Asn Lys Ser Met
 377 450 455 460
 380 Glu Leu Leu Asp Glu Arg Lys Phe Trp Ala Gly Ile Val Phe Thr Gly
 381 465 470 475 480
 384 Ile Thr Pro Gly Ser Ile Glu Leu Pro His His Val Lys Tyr Lys Ile
 385 485 490 495
 388 Arg Met Asp Ile Asp Asn Val Glu Arg Thr Asn Lys Ile Lys Asp Gly
 389 500 505 510
 392 Tyr Trp Asp Pro Gly Pro Arg Ala Asp Pro Phe Glu Asp Met Arg Tyr
 393 515 520 525
 396 Val Trp Gly Gly Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile
 397 530 535 540
 400 Ile Arg Val Leu Thr Gly Thr Glu Lys Lys Thr Gly Val Tyr Met Gln
 401 545 550 555 560
 404 Gln Met Pro Tyr Pro Cys Tyr Val Asp Asp Ile Phe Leu Arg Val Met
 405 565 570 575
 408 Ser Arg Ser Met Pro Leu Phe Met Thr Leu Ala Trp Ile Tyr Ser Val
 409 580 585 590
 412 Ala Val Ile Ile Lys Gly Ile Val Tyr Glu Lys Glu Ala Arg Leu Lys
 413 595 600 605
 416 Glu Thr Met Arg Ile Met Gly Leu Asp Asn Ser Ile Leu Trp Phe Ser
 417 610 615 620
 420 Trp Phe Ile Ser Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu
 421 625 630 635 640
 424 Val Val Ile Leu Lys Leu Gly Asn Leu Leu Pro Tyr Ser Asp Pro Ser
 425 645 650 655
 428 Val Val Phe Val Phe Leu Ser Val Phe Ala Val Val Thr Ile Leu Gln
 429 660 665 670
 432 Cys Phe Leu Ile Ser Thr Leu Phe Ser Arg Ala Asn Leu Ala Ala Ala
 433 675 680 685
 436 Cys Gly Gly Ile Ile Tyr Phe Thr Leu Tyr Leu Pro Tyr Val Leu Cys
 437 690 695 700
 440 Val Ala Trp Gln Asp Tyr Val Gly Phe Thr Leu Lys Ile Phe Ala Ser
 441 705 710 715 720
 444 Leu Leu Ser Pro Val Ala Phe Gly Phe Gly Cys Glu Tyr Phe Ala Leu
 445 725 730 735
 448 Phe Glu Glu Gln Gly Ile Gly Val Gln Trp Asp Asn Leu Phe Glu Ser
 449 740 745 750
 452 Pro Val Glu Glu Asp Gly Phe Asn Leu Thr Thr Ser Val Ser Met Met
 453 755 760 765
 456 Leu Phe Asp Thr Phe Leu Tyr Gly Val Met Thr Trp Tyr Ile Glu Ala
 457 770 775 780
 460 Val Phe Pro Gly Gln Tyr Gly Ile Pro Arg Pro Trp Tyr Phe Pro Cys
 461 785 790 795 800
 464 Thr Lys Ser Tyr Trp Phe Gly Glu Glu Ser Asp Glu Lys Ser His Pro
 465 805 810 815
 468 Gly Ser Asn Gln Lys Arg Ile Ser Glu Ile Cys Met Glu Glu Glu Pro
 469 820 825 830

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:13; N Pos. 4208,4210,4211,4212,4227,4228,4229,4231,4253,4677,4691,4707
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Seq#:20; N Pos. 5,2909
Seq#:25; N Pos. 1963
Seq#:31; N Pos. 856,1009,1128,1314,1326,1328,1343,1345,1346,1378,1415,2477
Seq#:31; N Pos. 2540
Seq#:54; N Pos. 856,1009,1128,1314,1326,1328,1343,1345,1346,1378,1415,2477
Seq#:54; N Pos. 2540

VERIFICATION SUMMARY

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Input Set : N:\Rasheed\PTO.AR.txt
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L:878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:900
M:341 Repeated in SeqNo=4
L:2104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:4200
M:341 Repeated in SeqNo=13
L:2769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
M:341 Repeated in SeqNo=20
L:3002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:1920
L:3524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:840
M:341 Repeated in SeqNo=31
L:3901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:840
M:341 Repeated in SeqNo=54